

Fig. 1A

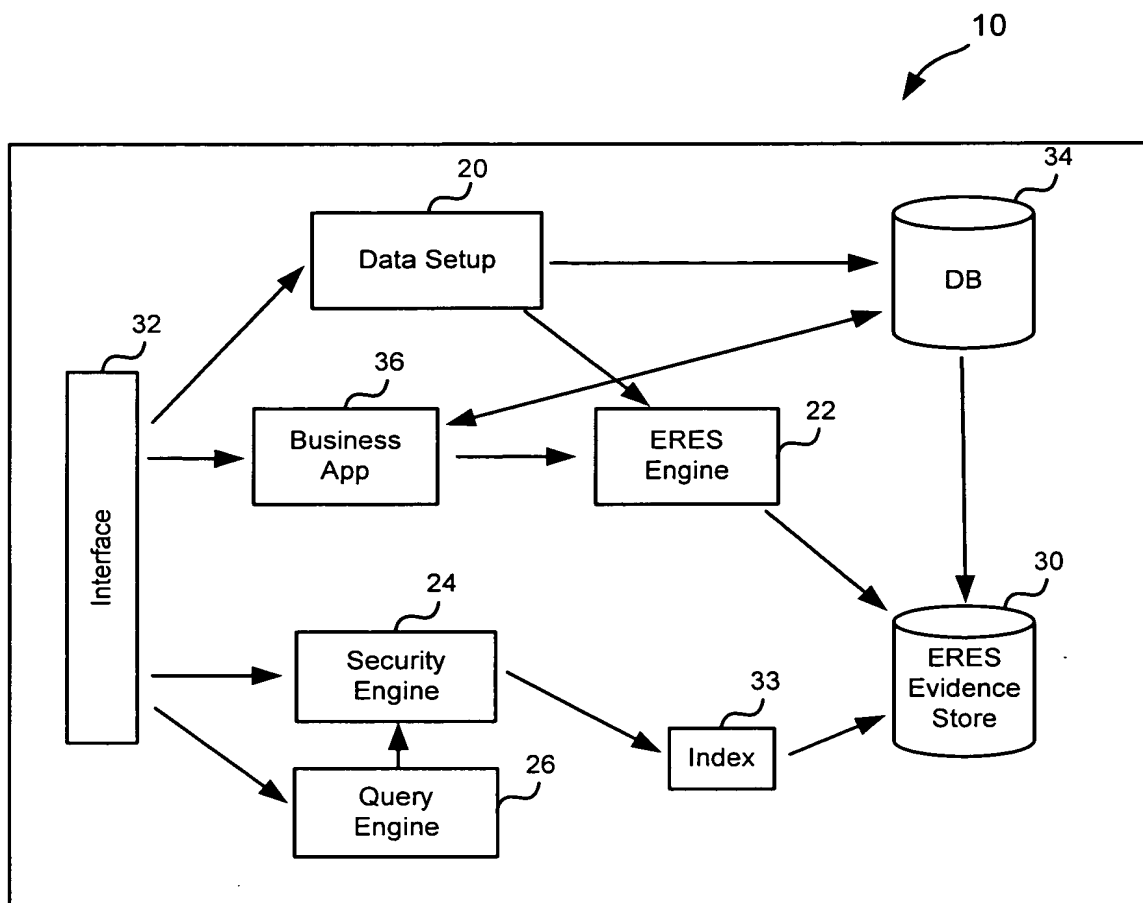


Fig. 1B

30a

Name	Datatype	Length	Mandatory	Comments
DOCUMENT_ID	NUMBER		Yes	Unique document id
PSIG_XML	CLOB	(4000)		XML document
PSIG_DOCUMENT	CLOB	(4000)		Electronic record as seen by user
PSIG_DOCUMENTFORMAT	VARCHAR2	(100)		Format of the Document
PSIG_TIMESTAMP	DATE			Timestamp when the document was requested
PSIG_TIMEZONE	VARCHAR2	(240)		Time Zone the document was initiated
DOCUMENT_REQUESTER	VARCHAR2	(240)		Document requester
PSIG_STATUS	VARCHAR2	(32)		Status of the document (ERROR, PENDING, COMPLETE)
PSIG_SOURCE	VARCHAR2	(32)		Source of the Document
EVENT_NAME	VARCHAR2	(80)		Event associated to the document
EVENT_KEY	VARCHAR2	(240)		Event instance identifier
PRINT_COUNT	NUMBER			Number of time document requested from printing
CREATION_DATE	DATE			WHO Column
CREATED_BY	NUMBER			WHO Column
LAST_UPDATE_DATE	DATE			WHO Column
LAST_UPDATED_BY	NUMBER			WHO Column
LAST_UPDATE_LOGIN	NUMBER			WHO Column

30b

Name	Datatype	Length	Mandatory	Comments
SIGNATURE_ID	NUMBER			Signature ID
DOCUMENT_ID	NUMBER			Document Id Refers EDR_PSIG_DOCUMENTS
EVIDENCE_STORE_ID	NUMBER			Evidence Store Id if the signature are present in Server Tech Storage
USER_NAME	VARCHAR2	(100)		User name who signed the Document
USER_RESPONSE	VARCHAR2	(100)		User Response
SIGNATURE_TIMESTAMP	DATE			Signed Time and Date
SIGNATURE_TIMEZONE	VARCHAR2	(240)		Signature Time Zone
SIGNATURE_STATUS	VARCHAR2	(32)		Signature Status (PENDING, COMPLETE, ERROR)
CREATION_DATE	DATE			WHO Columns
CREATED_BY	NUMBER			WHO Column
LAST_UPDATE_DATE	DATE			WHO Column
LAST_UPDATED_BY	NUMBER			WHO Column
LAST_UPDATE_LOGIN	NUMBER			WHO Column

Fig. 2

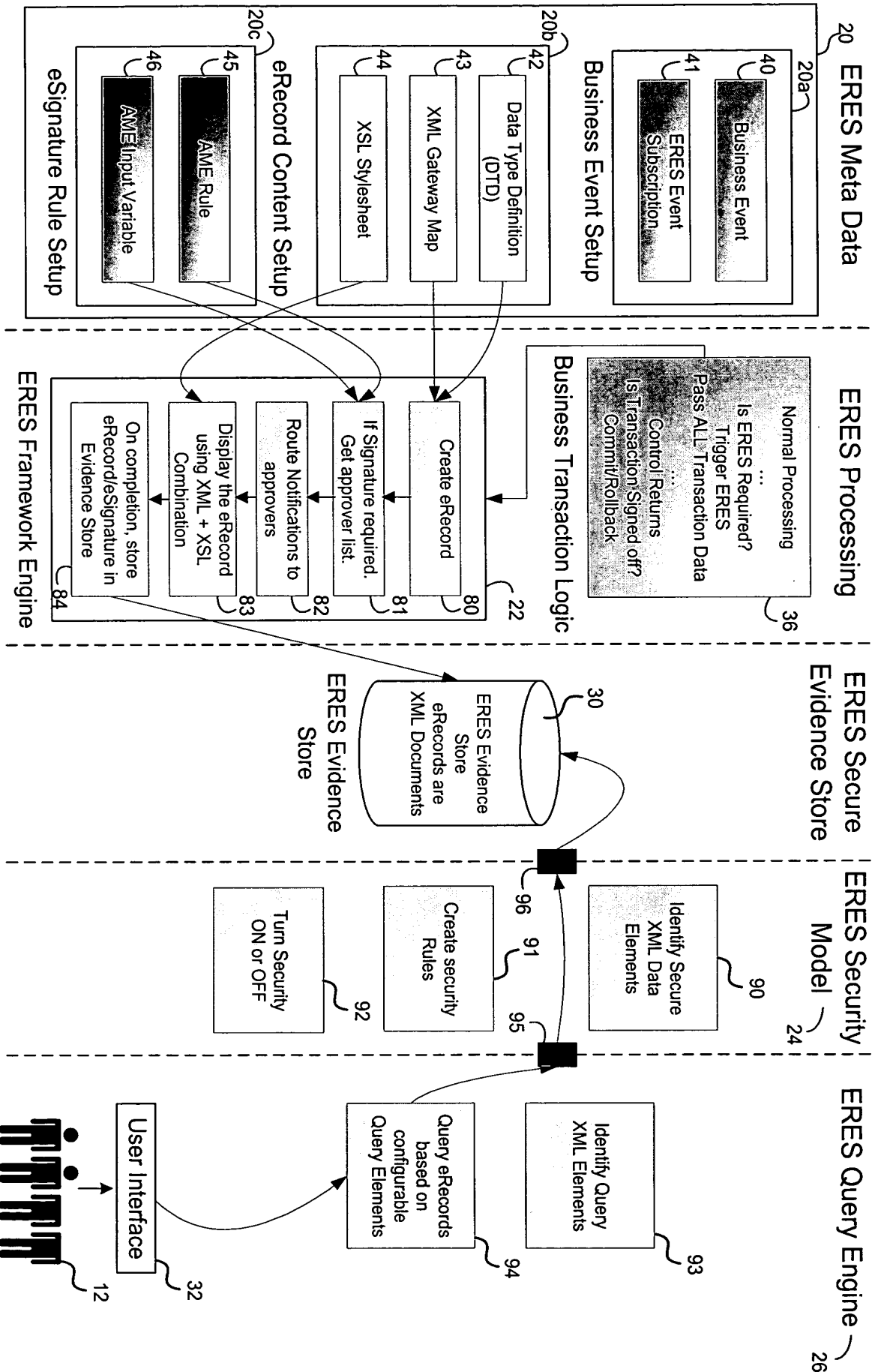


Fig. 3

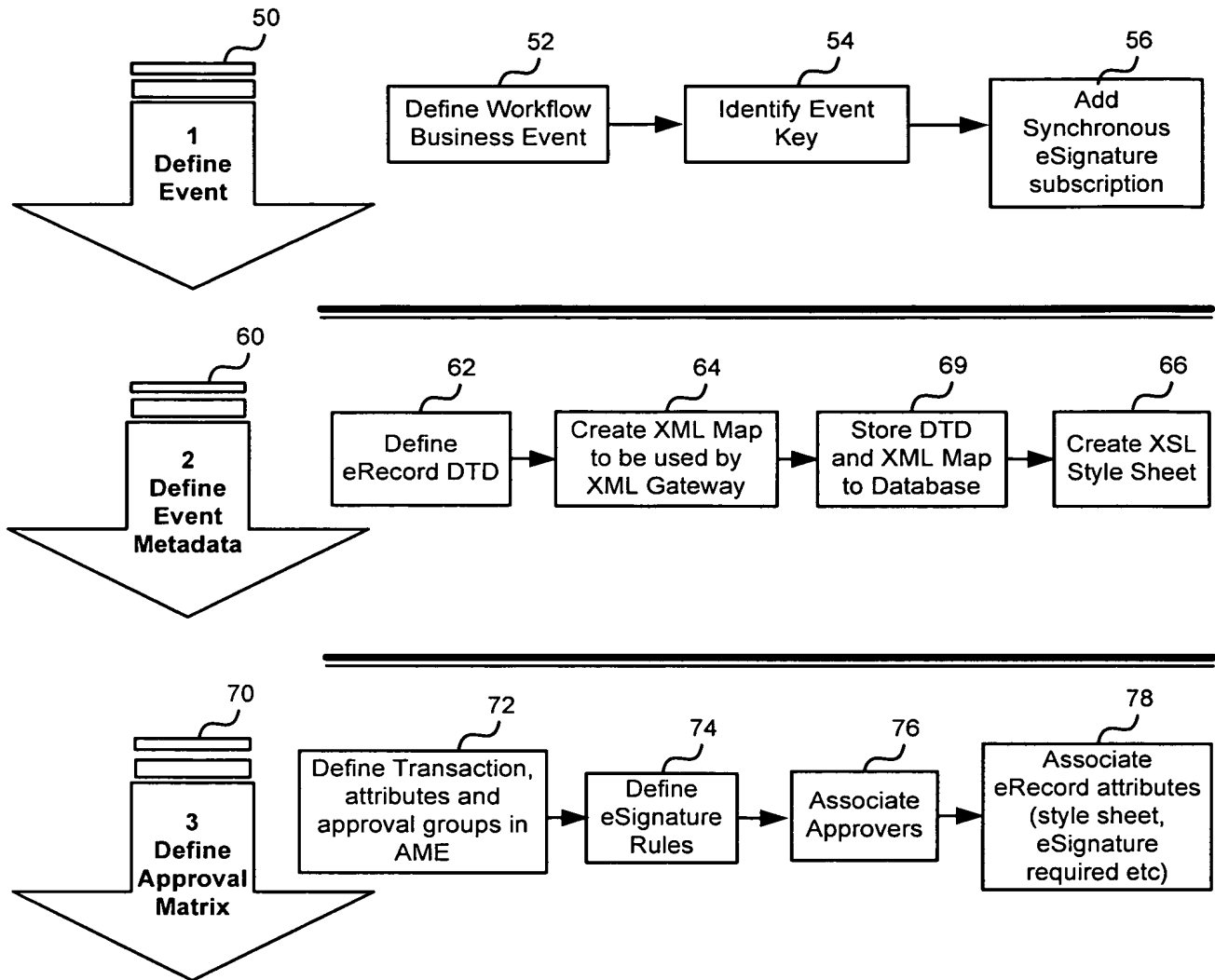


Fig. 4

80

ORACLE

Edit Event ?

Name **81**

Display Name **82**

Description **83**

Status **84**

Generate Function

Owner Name

Owner Tag **85**

86

Fig. 5

90

Rule	Attribute 93	Approver(s) 94
91 If PLANT = "Plant 1" And PRODUCT = "Cyanide"	eRecord = Yes eSignature = Yes eRecord Style Sheet = StyleSheet12.X51	James Dunn and Mark Arthur
92 If PLANT = "Plant 1"	eRecord = Yes eSignature = No eRecord Style Sheet = NULL	David Anderson

Fig. 6

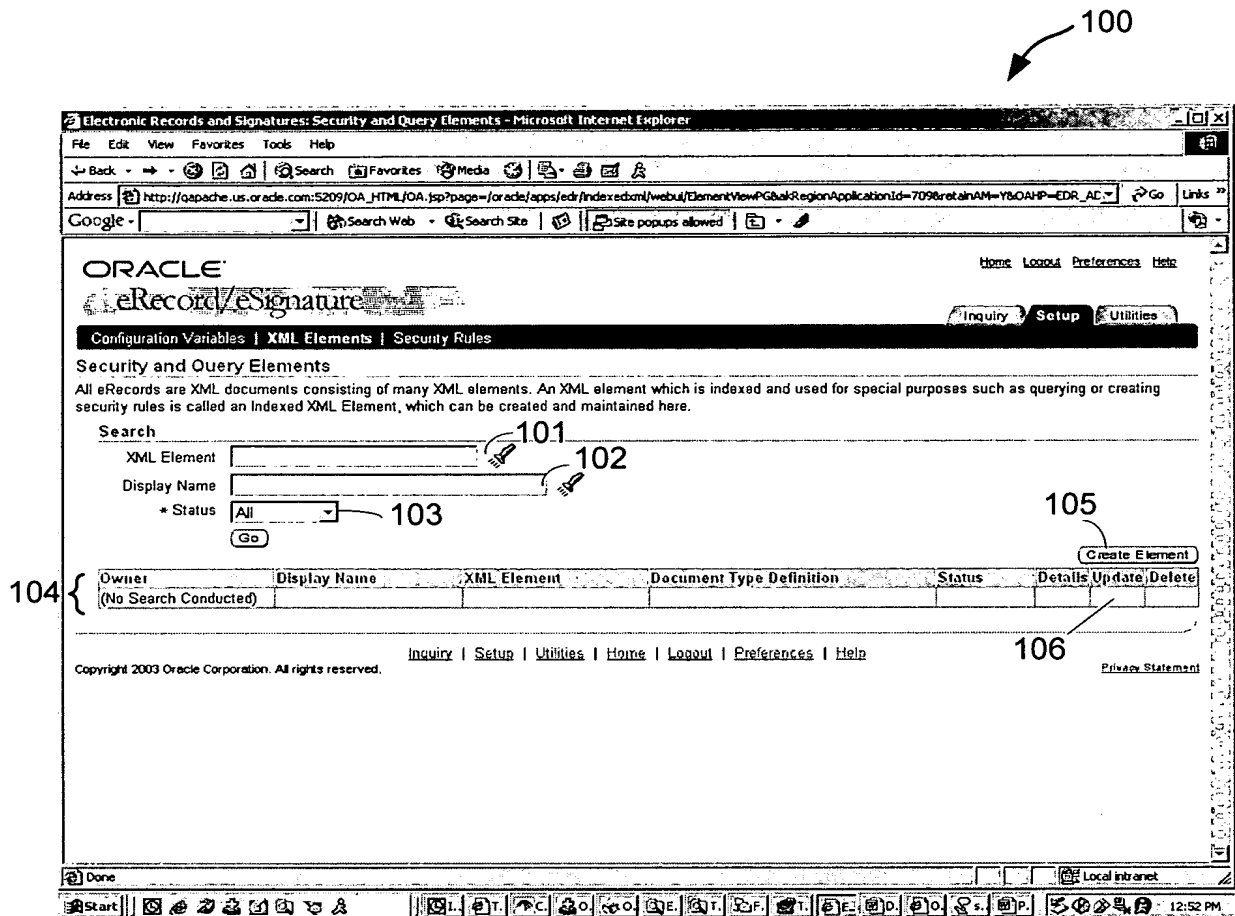


Fig. 7

[Return To Portal](#) [Diagnostics](#) [Logout](#) [Preferences](#)

eRecord Indexed XML Element Creation

Text explaining the use of the page

[Cancel](#) [Apply](#)

Owner Application

XML Element Name

Document Type Definition

Display Name

Query Element ☐ 111

Secure Element ☐ 112

113

114

[Cancel](#) [Apply](#)

Fig. 8

33a

Name	Null?	Type	Description
ELEMENT_ID	NOT NULL	NUMBER	Surrogate Primary Key.
XML_ELEMENT	NOT NULL	VARCHAR2(30)	XML element identified as being searchable
DTD_ROOT_ELEMENT		VARCHAR2(30)	Root element of the XML.
APPLICATION_ID	NOT NULL	NUMBER	Application ID of the application owning the query element.
INDEX_SECTION_NAME	NOT NULL	VARCHAR2(30)	Name of the section created in the index for the query element
INDEX_TAG	NOT NULL	VARCHAR2(64)	Tag used to create the section in the index. Unique Constraint.
STATUS	NOT NULL	CHAR(1)	Status of the query element. It can be I(ndexed) or N(ot Indexed).
CREATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
CREATION_DATE	NOT NULL	DATE	Standard WHO column
LAST_UPDATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
LAST_UPDATE_LOGIN		NUMBER(15)	Standard WHO column
LAST_UPDATE_DATE	NOT NULL	DATE	Standard WHO column

33b

Name	Null?	Type	Description
ELEMENT_ID	NOT NULL	NUMBER	Partial Primary key.
LANGUAGE	NOT NULL	VARCHAR2(4)	Partial Primary key. Language used for translatable columns
SOURCE_LANG		VARCHAR2(4)	Source language
DISPLAY_NAME	NOT NULL	VARCHAR2(100)	Display name of the query element. This would be visible to end users.
DESCRIPTION		VARCHAR2(100)	Description of the query element.
CREATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
CREATION_DATE	NOT NULL	DATE	Standard WHO column
LAST_UPDATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
LAST_UPDATE_LOGIN		NUMBER(15)	Standard WHO column
LAST_UPDATE_DATE	NOT NULL	DATE	Standard WHO column

33c

Name	Null?	Type	Description
USAGE_ID	NOT NULL	NUMBER	Surrogate primary key
ELEMENT_ID	NOT NULL	NUMBER	XML element used in creating the security rule.
ELEMENT_USAGE	NOT NULL	CHAR(1)	The usage of the XML element. It can be Q(uey) or S(ecure)
CREATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
CREATION_DATE	NOT NULL	DATE	Standard WHO column
LAST_UPDATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
LAST_UPDATE_LOGIN		NUMBER(15)	Standard WHO column
LAST_UPDATE_DATE	NOT NULL	DATE	Standard WHO column

Fig. 9

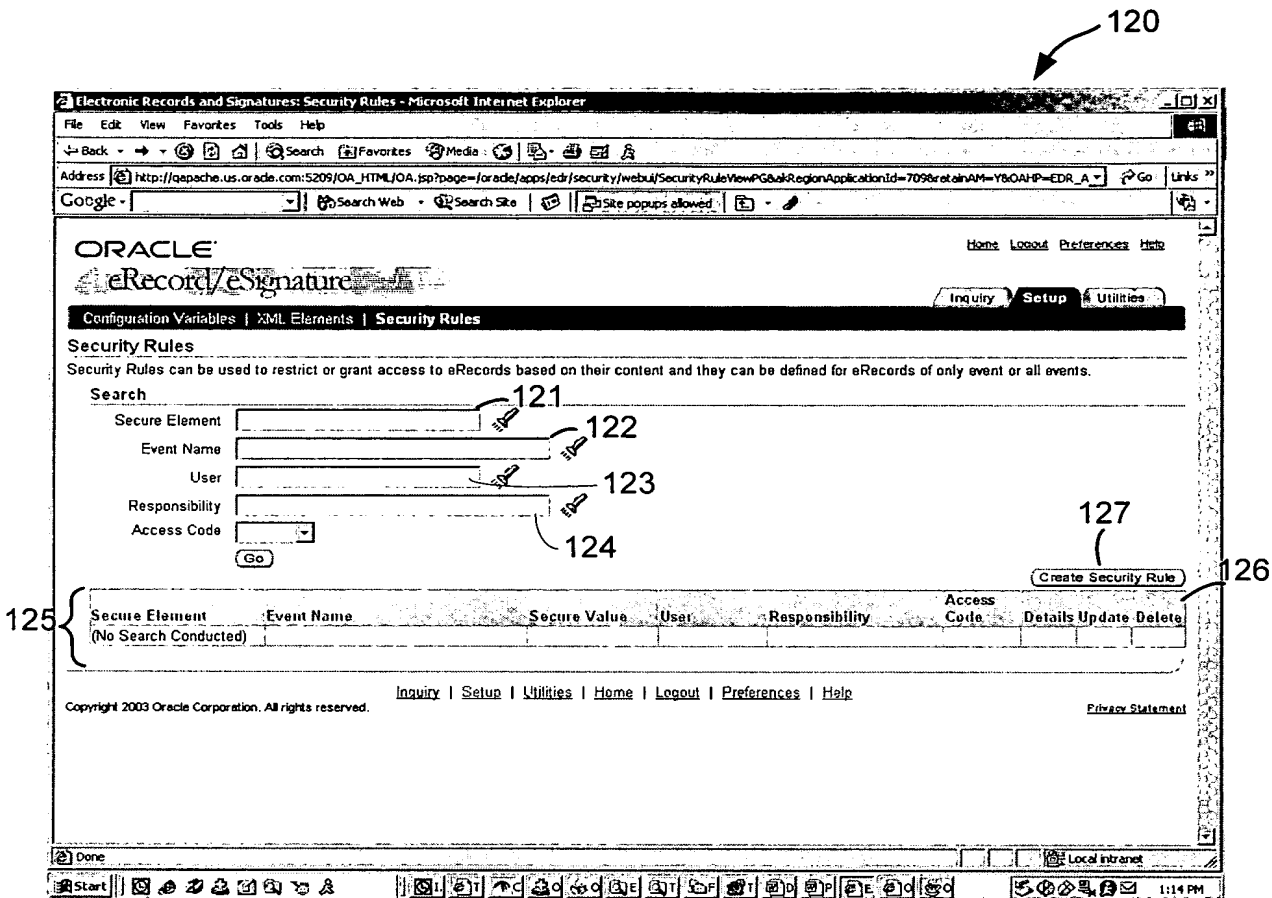


Fig. 10

Name	Null?	Type	Description
RULE_ID	NOT NULL	NUMBER	Surrogate primary key
ELEMENT_ID	NOT NULL	NUMBER	XML element used in creating the security rule.
EVENT_NAME		VARCHAR2(240)	Business event name used in creating the security rule.
SECURE_VALUE	NOT NULL	VARCHAR2(100)	Value secured by the security rule
USER_ID		NUMBER(15)	User ID of the APPS user for whom security is created
RESPONSIBILITY_ID		NUMBER(15)	Responsibility ID of the APPS responsibility for which security is created
ACCESS_CODE	NOT NULL	CHAR(1)	Access code can be G(rant) or R(estrict)
START_DATE	NOT NULL	SYSDATE	Start date for the rule
END_DATE		SYSDATE	End date for the rule
CREATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
CREATION_DATE	NOT NULL	DATE	Standard WHO column
LAST_UPDATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
LAST_UPDATE_LOGIN		NUMBER(15)	Standard WHO column
LAST_UPDATE_DATE	NOT NULL	DATE	Standard WHO column

Fig. 11

130

[Return To Portal](#) [Diagnosics](#) [Logout](#) [Preferences](#)

eRecord Security Rule Creation

Text explaining the use of the page

Secure Element: 131

Event Name: 132

Secure Value: 133

User: 134

Responsibility: 135

Access Code: 136

Start Date: 137

End Date: 138

Fig. 12

140

Search Documents

Search 143

144

Event Name 145

From Date 146

To Date 147

Signer 148

149

Events 155

Event	Identifier	Timestamp	Timezone	Print
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>

142

154

Fig. 13

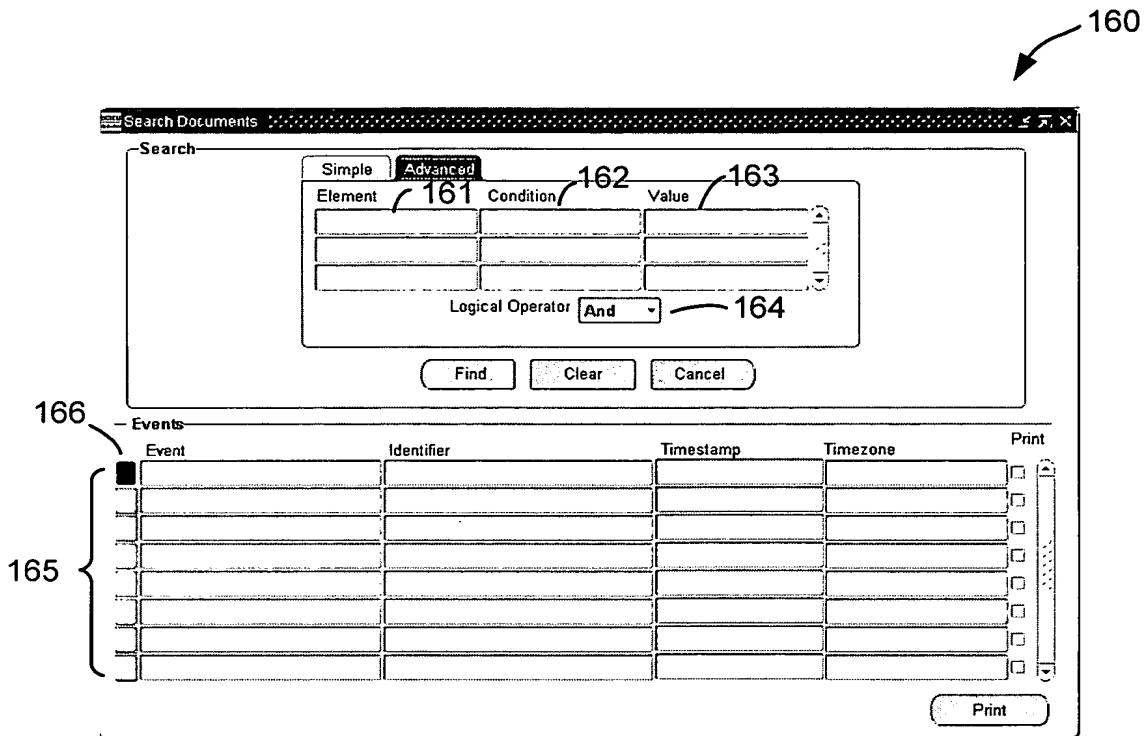


Fig. 14

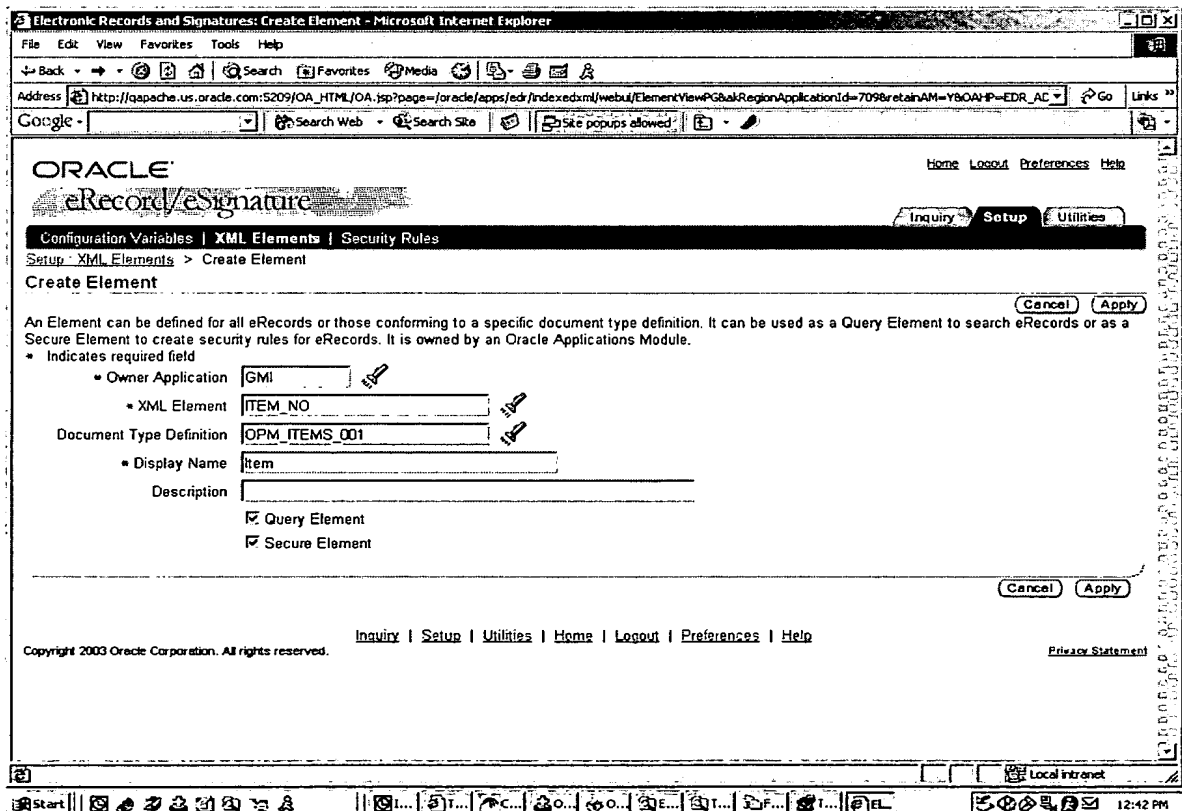


Fig. 15

Electronic Records and Signatures: Create Element - Microsoft Internet Explorer

Address: http://qapache.us.oracle.com:5209/OA_HTML/OA.jsp?page=/oracle/apps/edr/indexedxml/webui/ElementViewPG&akRegionApplicationId=7098&OAHP=EDR_ADMINISTRATOR

ORACLE eRecord/eSignature

Configuration Variables | XML Elements | Security Rules

Setup XML Elements > Create Element

Create Element

An Element can be defined for all eRecords or those conforming to a specific document type definition. It can be used as a Query Element to search eRecords or as a Secure Element to create security rules for eRecords. It is owned by an Oracle Applications Module.

- Indicates required field
- Owner Application: GMI
- XML Element: ITEM_NO
- Document Type Definition: OPM_LOTS_001
- Display Name: Lot Item
- Description:
- ☒ Query Element
- ☒ Secure Element

Cancel Apply

Inquiry | Setup | Utilities | Home | Logout | Preferences | Help

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Fig. 16

Electronic Records and Signatures: Security and Query Elements - Microsoft Internet Explorer

Address: http://qapache.us.oracle.com:5209/OA_HTML/OA.jsp?page=/oracle/apps/edr/indexedxml/webui/ElementViewPG&akRegionApplicationId=7098&OAHP=EDR_ADMINISTRATOR

ORACLE eRecord/eSignature

Configuration Variables | XML Elements | Security Rules

Security and Query Elements

All eRecords are XML documents consisting of many XML elements. An XML element which is indexed and used for special purposes such as querying or creating security rules is called an Indexed XML Element, which can be created and maintained here.

Search

XML Element: item_no

Display Name:

Status: All

Go

Create Element

Owner	Display Name	XML Element	Document Type Definition	Status	Details	Update	Delete
GMI	Item	ITEM_NO	OPM_ITEMS_001	Not Indexed			
GMI	Lot Item	ITEM_NO	OPM_LOTS_001	Not Indexed			

Inquiry | Setup | Utilities | Home | Logout | Preferences | Help

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Fig. 17

METHOD OF AND SYSTEM FOR ASSOCIATING AN ELECTRONIC SIGNATURE WITH AN ELECTRONIC RECORD

Inventors: Srikanth Karimisetty et al
US Patent Application No. Unassigned; Filed: Herewith
William L. Shaffer (650-326-2400)
Attorney Docket No.: 21756-001900US

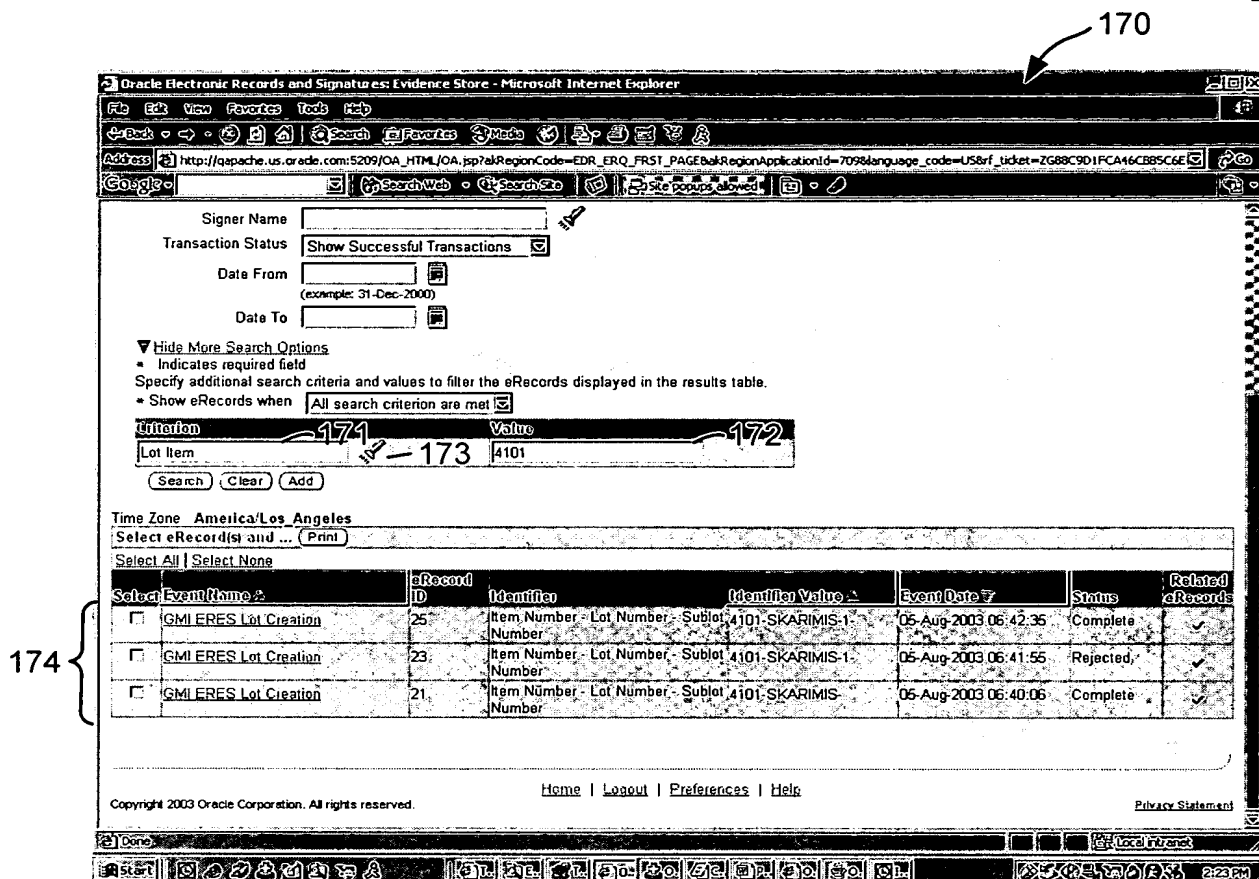


Fig. 18

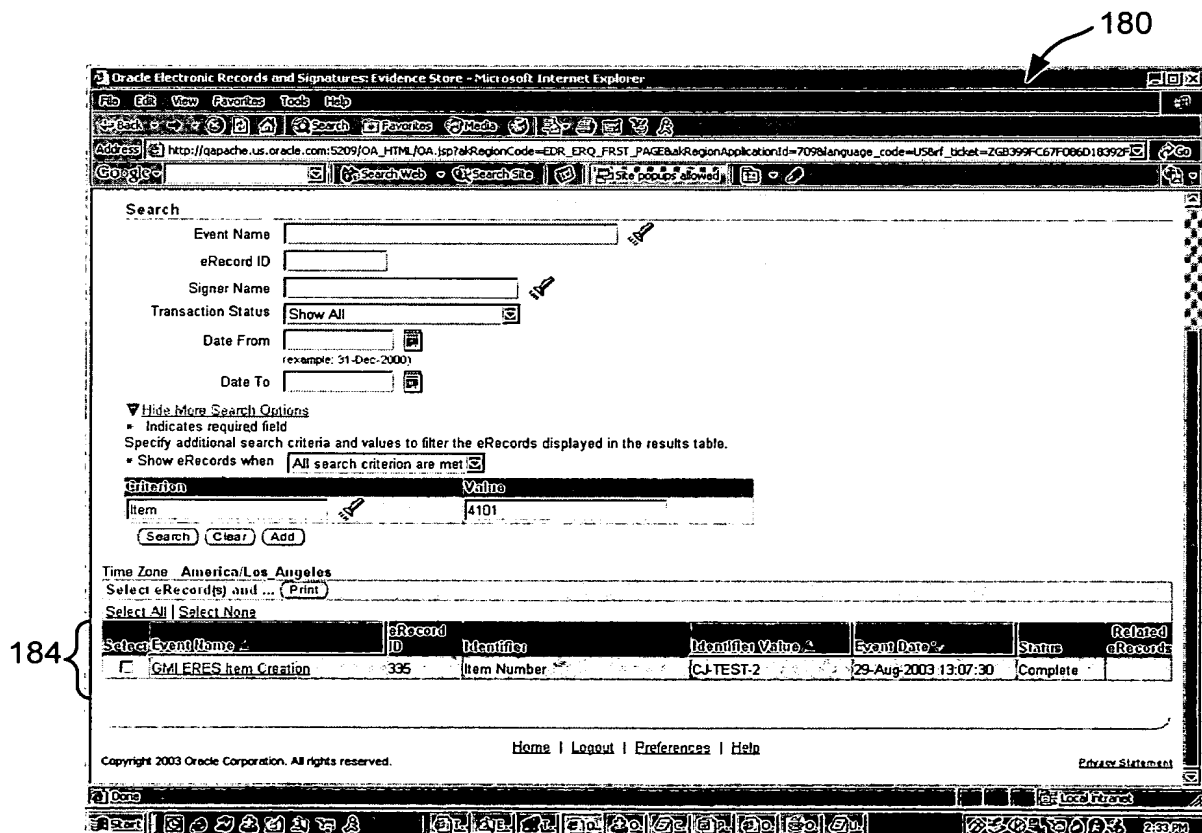


Fig. 19

Oracle eRecord/eSignature

Configuration Variables | XML Elements | Security Rules

Setup: Security Rules > Create Security Rule

Create Security Rule

Select a Secure Element and specify the value for the element that needs to be secured. Also, select a User or Responsibility for which the rule is being created and Grant or Restrict access. A security rule can be created for all eRecords or only those created for a specific business event.

Indicates required field

- Secure Element: Item
- Event Name: [Text Field]
- Secure Value: 4101
- User: CSINGH
- Responsibility: [Text Field]
- Access Code: Restrict
- Start Date: 23-Sep-2003 16:15:50 (example: 31-Dec-2000 20:45:00)
- End Date: [Text Field]

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Fig. 20

Oracle eRecord/eSignature

Evidence Store

The Evidence Store stores all the Electronic Records (eRecords) created for an organization. Each eRecord contains business transaction details, approver information and in some cases approver signatures.

Search

Event Name: [Text Field]

eRecord ID: [Text Field]

Signer Name: [Text Field]

Transaction Status: Show All

Date From: 31-Dec-2000 (example: 31-Dec-2000)

Date To: [Text Field]

Hide More Search Options

- Indicates required field
- Show eRecords when: All search criterion are met

Criterion	Value
Item	4101

Search Clear Add

Select	Event Name	eRecord ID	Identifier	Identifier Value	Event Date	Status	Related eRecords
(No Search Conducted)							

Fig. 21